(19)日本国特許庁（ＪＰ）　(12)公表特許公報（Ａ）　(11)特許出願公表番号
特表2003－527287
（P2003－527287A）
(43)公表日　平成15年９月16日(2003.9.16)

(51)Int.Cl.[7]	識別記号	ＦＩ	テーマコード（参考）
Ｃ０３Ｂ　37/04		Ｃ０３Ｂ　37/04	４Ｇ０２１
Ｃ０３Ｃ　3/062		Ｃ０３Ｃ　3/062	４Ｇ０６０
3/064		3/064	４Ｇ０６２
3/083		3/083	
3/085		3/085	

審査請求　未請求　予備審査請求　有　（全 37 頁）　最終頁に続く

(21)出願番号　特願2001－567652(P2001－567652)
(86)(22)出願日　平成13年３月16日(2001.3.16)
(85)翻訳文提出日　平成14年９月17日(2002.9.17)
(86)国際出願番号　ＰＣＴ／ＦＲ０１／００８０５
(87)国際公開番号　ＷＯ０１／０６８５４６
(87)国際公開日　平成13年９月20日(2001.9.20)
(31)優先権主張番号　００／０３４８４
(32)優先日　平成12年３月17日(2000.3.17)
(33)優先権主張国　フランス（ＦＲ）

(71)出願人　サン－ゴバン・イソベール
フランス国、エフ－92400　クールベボワ、アブニュ・ダルザス　18、"レ・ミロワール"
(72)発明者　ベルナール、ジャン－ルーク
フランス国、エフ－60600　クレルモン、ジアンクール、リュ・アンドレ・ウディン　51
(72)発明者　ビニュスール、セルジュ
フランス国、エフ－75018　パリ、リュ・ベルト　39
(74)代理人　弁理士　鈴江　武彦　（外３名）

最終頁に続く

(54)【発明の名称】　ミネラルウール組成物

(57)【要約】
生理学的媒体中に溶解し得るミネラルウールであって、構成成分が以下の重量パーセンテージ：ＳｉＯ２　３５～６０％、好ましくは　３９～５５％Ａｌ２Ｏ３　１２～２７％、好ましくは　１６～２５％ＣａＯ　０～３５％、好ましくは　３～２５％ＭｇＯ　０～３０％、好ましくは　０～１５％Ｎａ２Ｏ　０～１７％、好ましくは　６～１２％Ｋ２Ｏ　０～１７％、好ましくは　３～１２％Ｒ２Ｏ（Ｎａ２Ｏ＋Ｋ２Ｏ）　１０～１７％、好ましくは　１２～１７％Ｐ２Ｏ５　０～５％、好ましくは　０～２％Ｆｅ２Ｏ３　０～２０％、Ｂ２Ｏ３　０～８％、好ましくは　０～４％ＴｉＯ２　０～３％、で示されるところの繊維を含み、また、Ｐ２Ｏ５形態で表現されるリン含有量が、繊維の全質量の０．２％から、特に０．５％を超える量から、５％まで、特に２％未満までの範囲にあり、かつ繊維の表面上に被膜を形成するように繊維と１００℃を超える温度で反応し得るところのリン系化合物も含む。

* NOTICES *

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]
[Claim 1]It is a thermally stable mineral wool which may dissolve in a physiological medium, and constituents are the following weight percentages. : $SiO_2$35-60%, desirable -- -- 39-55% aluminum _ _ $_2O_3$12 to 27% -- desirable -- -- 0 to 35% of CaO 16 to 25%, desirable -- -- 0 to 30% of 3-25% MgO -- desirable -- -- 0-15% Na_2O -- 0 to 17%, desirable -- -- 6-12% K_2O 0-17% -- desirable -- -- 3-12% R_2O (Na_2O+K_2O) -- 10 to 17%, It is desirable. Preferably 12 to 17% $P_2O_5$0 to 5% 0- 2% $Fe_2O_3$0-20%, $B_2O_3$0 - 8% -- desirable -- 0 - 4% TiO __ $_2$0 to 3%, it comes out, and phosphorus content with a P_2O_5 gestalt including textiles shown, [express and] A mineral wool containing the Lynn system compound which can react to textiles at temperature over 100 ** so that it may be in a range up to less than 2% and covering may be especially formed on the surface of textiles from quantity exceeding especially 0.5% to 5% in 0.2% of total mass of textiles.
[Claim 2]Constituents are the following weight percentages. : $SiO_2$39-55%, desirable -- -- 40-52% aluminum __ 3 to 35% of CaO 16 to 25% preferably $_2O_3$16 to 27%, desirable -- -- 0 to 15% of 10-25% MgO -- desirable -- -- 0-10% Na_2O -- 0 to 15%, desirable -- -- 6-12% K_2O 0-15% -- desirable -- -- 3-12% R_2O (Na_2O+K_2O) -- 10 to 17%, It is desirable. Preferably 12 to 17% $P_2O_5$0 to 5% 0- 2% $Fe_2O_3$0-15%, $B_2O_3$0 - 8% -- desirable -- 0 - 4% TiO __ the mineral wool according to claim 1 which comes out and is characterized by especially MgO being 0 thru/or 2% 0 thru/or 5% when it is R_2O<=13.0% $_2$0 to 3% including textiles shown.
[Claim 3]Constituents are the following weight percentages. : $SiO_2$39-55%, desirable -- -- 40-52% aluminum __ 3 to 35% of CaO 17 to 22% preferably $_2O_3$16 to 25%, desirable -- -- 0 to 15% of 10-25% MgO -- desirable -- -- 0-10% Na_2O -- 0 to 15%, desirable -- -- 6-12% K_2O 0-15% -- desirable -- -- 6-12% R_2O (Na_2O+K_2O) -- 13.0 to 17%, $P_2O_5$0 - 5% -- desirable -- 0 - 2% Fe __ the mineral wool according to claim 1 or 2 by which textiles preferably shown at 0 - 4% $TiO_2$0 - 3% being included $_2O_3$0 to 15% $B_2O_3$0 to 8%.
[Claim 4]A mineral wool of Claims 1-3 to which alkali content (Na_2O+K_2O) of textiles is especially characterized by being <= [13.3% of] R_2O<=14.5% <= [13.0% of] R_2O<=15% given in any 1 paragraph.
[Claim 5]Fe_2O_3 (iron whole quantity) content of textiles -- 0%<=Fe_2O_3<=5% -- desirable -- 0% <=Fe_2O_3<=3% -- especially -- -- a mineral wool of Claims 1-4 being 0.5%<=Fe_2O_3<=2.5% given in any 1 paragraph.
[Claim 6]Fe_2O_3 (iron whole quantity) content of textiles -- 5%<=Fe_2O_3<= -- a mineral wool of

Claims 1-4 especially characterized by being 5%<=Fe_2O_3<=8% 15% given in any 1 paragraph.

[Claim 7]A mineral wool of Claims 1-6 given in any 1 paragraph, wherein a presentation of textiles satisfies following related (Na_2O+K_2O) / $aluminum_2O_3$>=0.5.

[Claim 8]A mineral wool of Claims 1-7 to which a presentation of textiles is characterized by following relation (Na_2O+K_2O) /$aluminum_2O_3$>=0.6 and satisfying /$aluminum_2O_3$>=0.7 especially (Na_2O+K_2O) given in any 1 paragraph.

[Claim 9]lime of textiles, and content of magnesia -- 10%<=CaO<=25% -- especially -- 15% <=CaO<=25% and 0%<=MgO<=5% -- desirable -- 0%<=MgO<= -- a mineral wool of Claims 1-8 especially characterized by being 0%<=MgO<=1% 2% given in any 1 paragraph.

[Claim 10]lime of textiles, and content of magnesia -- 5%<=MgO<=10% and 5%<=CaO<= -- a mineral wool of Claims 1-8 characterized by being 5%<=CaO<=10% preferably 10% given in any 1 paragraph.

[Claim 11]A mineral wool of Claims 1-10 having a dissolution rate of 30 ng/cm^2 even if textiles measure by pH of 4.5 and there are per hour given in any 1 paragraph. [few]

[Claim 12]A mineral wool of Claims 1-11 given in any 1 paragraph, wherein glass equivalent to textiles can fibrose by internal centrifugality.

[Claim 13]A mineral wool of Claims 1-12 given in any 1 paragraph, wherein covering which may be formed on the surface of textiles consists of phosphoric acid alkaline earth metal salt intrinsically.

[Claim 14]The mineral wool according to claim 13, wherein phosphoric acid alkaline earth metal salt is calcium phosphate.

[Claim 15]A mineral wool of Claims 1-14 being the compounds which decompose at temperature to which the Lynn system compound which can react to textiles exceeds 100 **, and emit phosphoric acid or a phosphoric anhydride given in any 1 paragraph.

[Claim 16]The mineral wool according to claim 15, wherein the Lynn system compound is chosen from ammonium phosphate, phosphoric acid, and ammonium hide ROGENO phosphate (ammonium hydrogenophosphate).

[Claim 17]It is a manufacturing method of a mineral wool and constituents are the following weight percentages. : $SiO_2$35-60%, desirable -- -- 39-55% aluminum __ $_2O_3$12 to 27% -- desirable -- -- 0 to 35% of CaO 16 to 25%, desirable -- -- 0 to 30% of 3-25% MgO -- desirable -- -- 0-15% Na_2O -- 0 to 17%, desirable -- -- 6-12% K_2O 0-17% -- desirable -- -- 3-12% R_2O (Na_2O+K_2O) -- 10 to 17%, desirable -- -- 12-17% $P_2O_5$0 - 5% -- desirable -- 0 - 2% Fe __ $_2O_3$0 to 20%, $B_2O_3$0 - 8% -- desirable -- 0 - 4% TiO __ it coming out, and textiles being formed substantially, and from oxide melt shown, $_2$0 to 3%, [rank second and] How applying the Lynn system compound which can react to textiles in order to form covering on the surface of textiles especially according to a spray or being solution impregnated.

[Claim 18]Use of a mineral wool of Claims 1-16 in a fireproof structure system given in any 1 paragraph.

[Translation done.]

JAPANESE [JP,2003-527287,A]

CLAIMS DETAILED DESCRIPTION DRAWINGS

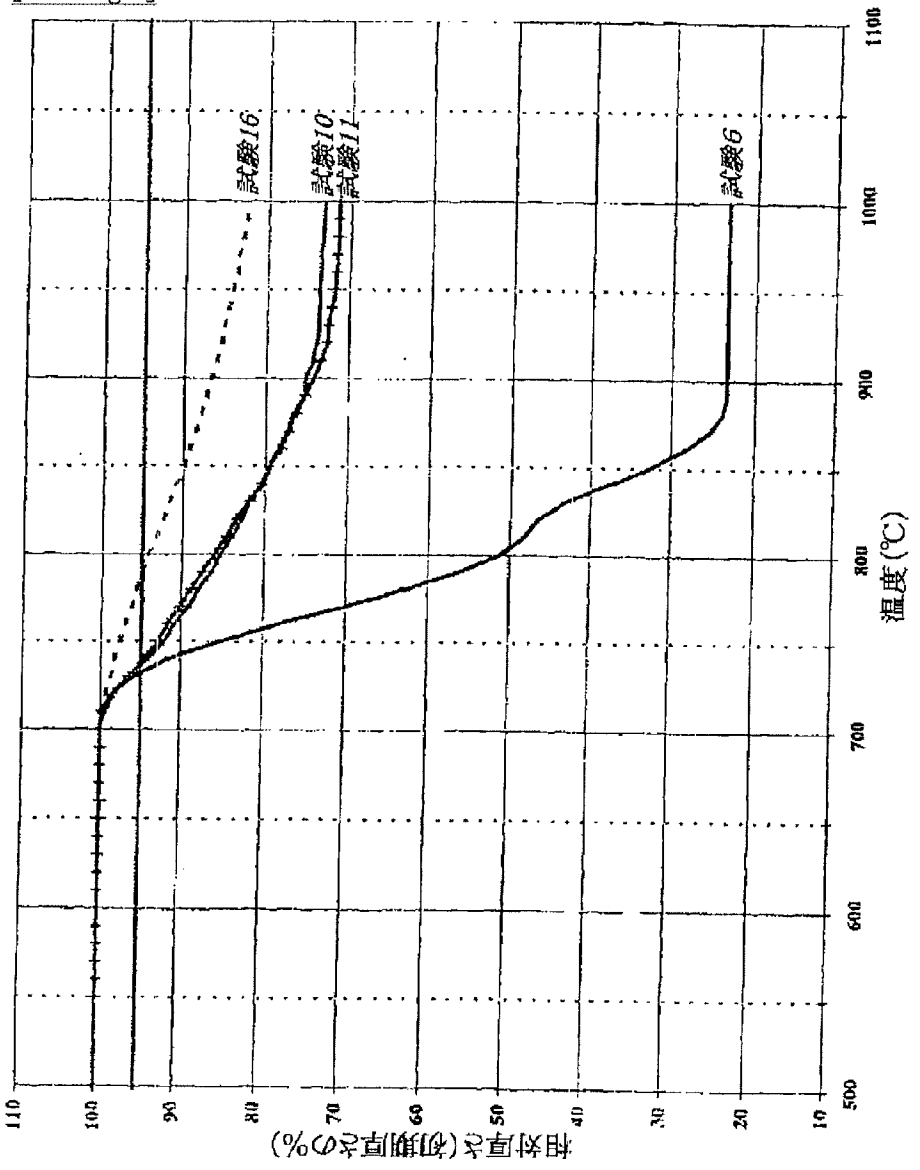
[Translation done.]

* NOTICES *

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

DRAWINGS

[Drawing 1]



[Translation done.]